



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Antimicrobials Division (7510P)  
1200 Pennsylvania Avenue NW  
Washington, D.C. 20460

EPA Reg. Number:

59106-9

Date of Issuance:

JUL 24 2014

Term of Issuance:

**Unconditional**

Name of Pesticide Product:

BioClear 2500 Antimicrobial

NOTICE OF PESTICIDE:

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Clearwater International, LLC  
D/B/A Weatherford Engineered Company  
2000 St. James Place, 7<sup>th</sup> Floor  
Houston, TX 770956

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The application referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable under FIFRA sec. 3(c)(5). Please note, you are required to submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Eric Miederhoff  
Acting Product Manager (33)  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)

Date:

JUL 24 2014



# Weatherford®

## BioClear 2500 Antimicrobial

AN EFFECTIVE MICROBIOCIDAL FOR USE IN CONTROLLING SULFATE-REDUCING BACTERIA, FUNGI (YEAST AND MOLDS), ALGAE AND SLIME-FORMING BACTERIA AND IN OIL AND GAS PRODUCTION AND PRODUCTION APPLICATIONS, PACKER FLUIDS, HYDROTESTING, OIL FIELD WATER SYSTEMS, TRANSMISSION PIPELINES AND SYSTEMS, GAS STORAGE FIELDS AND EQUIPMENT, SUCH AS, STEAM-INJECTION WATER HOLDING TANKS, FLOOD WATER, FRACTURING FLUIDS, INJECTION WATER, HOLDING POND WATER, DISPOSAL WELL WATER, WATER HOLDING TANKS, FUEL STORAGE TANKS AND RELATED REFINERY AND OILFIELD CLOSED, INDUSTRIAL RECIRCULATING WATER HANDLING SYSTEMS. CONTROLS MICROBIAL GROWTH IN INDUSTRIAL RECIRCULATING WATER SYSTEMS, NON-DRINKABLE SERVICE WATER SYSTEMS, HEAT TRANSFER SYSTEMS, INDUSTRIAL WASTEWATER SYSTEMS AND AQUEOUS METALWORKING FLUIDS.

### Active ingredient

Glutaraldehyde.....	51.1%
Inert ingredients.....	48.9%
Total.....	100%

## PRECAUTIONARY STATEMENTS

### HAZARD TO HUMANS AND DOMESTIC ANIMALS

## DANGER

### Keep Out of Reach of Children

**DANGER!** Corrosive. Causes irreversible eye damage. Causes skin burns. Harmful if inhaled. May be fatal if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic symptom in hyper-sensitive individuals.

Do not get in eyes, on skin or on clothing. Do not follow. Avoid breathing vapor. Wear goggles or face shield, long-sleeve shirt, long pants, shoes, socks, chemical-resistant gloves, and chemical-resistant apron. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Handle in a well-ventilated area. If vapors are irritating to the nose or eyes, special ventilation or respiratory protection (MSHA/NIOSH approved air purifying respirator equipped with an organic vapor cartridge) may be required.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant

authority. For guidance, contact your State Water Board or Regional Office of the EPA.

### STORAGE AND HANDLING

BIOCLEAR 2500 Antimicrobial is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. BIOCLEAR 2500 Antimicrobial can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 27 °F (-3 °C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100 °F (37.8 °C) can be tolerated but the preferred maximum storage temperature is about 80 °F (26.7 °C). A stainless steel centrifugal pump is suggested for transfer service. Spiral-wound stainless steel with TEFLON® Polymer is suitable for gaskets and packing.

### STORAGE AND DISPOSAL

**PESTICIDE DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### CONTAINER DISPOSAL

**Non-refillable container:** Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or state and local authorities. **Refillable Container:** Refill this container with pesticide by other procedures approved by only. Do not reuse this container for any other purpose. Cleaning of the container is the responsibility of the person disposing of the container. Cleaning the container before refilling is the responsibility of the person refilling the container. To clean the container before final disposal, empty contents into application equipment and triple rinse. Pour or pump rinsate into application equipment or rinsate collection system. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or state and local authorities.

### Manufactured for:

CLEARWATER INTERNATIONAL, LLC  
D/B/A WEATHERFORD ENGINEERED  
CHEMISTRY  
2000 St. James Place  
Houston, TX 77056  
713-836-4000

EPA registration # 59106-9

EPA establishment #: \_\_\_\_\_

Net contents: \_\_\_\_\_ LBS. \_\_\_\_\_ KG.

## First Aid

If swallowed:	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything to drink.</li> </ul>
If in eyes:	<ul style="list-style-type: none"> <li>• Hold eye open and rinse immediately and completely with water for at least 30 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Obtain prompt medical consultation.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing:	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled:	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific Time (PT), seven days a week. During other times, call the poison control center at 1-800-222-1222.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### WATER FLOODS

This product must be added to a drilling fluid system at a point of uniform mixing.

**Initial treatment:** When system is noticeably fouled add 97.8 to 4,892.4 ppm or 0.097 to 4.89 gallons of BioClear 2500 Antimicrobial per 1000 gallons of flood water. Repeat until control is achieved.

**Subsequent treatment:** When control is evident add 19.57 to 4,892.4 ppm or 0.0196 to 4.89 gallons of BioClear 2500 Antimicrobial per 1000 gallons of flood water. Repeat as needed depending on severity of contamination.

### PACKER FLUIDS

This product must be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 48.92 to 587.1 ppm or 0.196 to 2.45 gallons of BioClear 2500 Antimicrobial per 100 barrels of fluid to a freshly prepared fluid, depending on the severity of contamination. Seal the treated packer fluid in the well between the casing and production tube.

### DRILLING, COMPLETION, AND WORKOVER FLUIDS

This product must be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.

**Initial treatment:** Add 48.92 to 978.5 ppm or 0.196 to 3.91 gallons of BioClear 2500 Antimicrobial per 100 barrels of fluid to freshly prepared fluid depending on the severity of contamination.

**Subsequent treatment:** Maintain a of 48.92 to 978.5 ppm or 0.196 to 3.91 gallons of BioClear 2500 Antimicrobial per 100 barrels of fluid. Apply as needed depending on the severity of contamination.

### FRAC FLUIDS

Add this product to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole.

**Treatment Dosage:** this product must be added at a rate of 97.8 to 4,892.4 ppm or 0.097 to 4.89 gallons of BioClear 2500 Antimicrobial per 1000 gallons of water depending on the severity of bacterial fouling of the source water.

### GAS STORAGE WELLS AND SYSTEMS

Individual injection wells must be treated with a sufficient quantity of this product to produce a concentration of 489.2 to 4,892.4 ppm of BioClear 2500 Antimicrobial when diluted by the water present in the formation. Injection must take place before gas is injected

(during the summer). Injections must be repeated yearly, or as needed to maintain control. Individual drips must be treated with a sufficient quantity of this product to produce a concentration of 195.6 to 1956.9 ppm of BioClear 2500 Antimicrobial when diluted by the water present in the drip. Injections must be repeated yearly, or as needed to maintain control.

### PIPELINE PIGGING AND SCRAPING OPERATIONS

Add this product to minimum amount of water immediately following the scraper and contained between the scraper and a trailing pig. Add at a rate to produce a concentration of 978.5 to 9,784.7 ppm or 0.097 to 0.98 gallon of BioClear 2500 Antimicrobial per 100 gallons water, depending on the length of the pipeline and the severity of the contamination

### HYDROTESTING

To hydro-test pipelines or vessels maintain a concentration of 97.8 to 3,913.9 ppm or 0.097 to 4 gallons of BioClear 2500 Antimicrobial per 1,000 gallons water, depending on water quality and length of time the equipment will remain idle.

### AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS, RECIRCULATING COOLING AND PROCESS WATER SYSTEMS, SERVICE WATER, HEAT TRANSFER AND AUXILIARY SYSTEMS

This product may be used only in industrial air washers and air washer systems which have must-eliminating components. Add BioClear 2500 Antimicrobial at the application rates described below, to a water treatment system at point of uniform mixing such as the basin area. Addition may be made intermittently or continuously. Badly fouled systems can be shock treated with BioClear 2500 Antimicrobial. Under these conditions, blowdown should be discontinued for up to 24 hours. BioClear 2500 Antimicrobial can be used in industrial process water systems that contain ultra-filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

### INTERMITTENT (SLUG DOSE) METHOD

**Initial Dose:** When the system is noticeably fouled, apply 11.74 to 23.48 fluid ounces of BioClear 2500 Antimicrobial per 1,000 gallons of water in the system. Repeat until control is achieved. **Subsequent Dose:** When microbial control is evident, add 4.7 to 11.74 fluid ounces of BioClear 2500 Antimicrobial per 1,000 gallons of water in the system weekly, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

### CONTINUOUS FEED METHOD

**Initial Dose:** When the system is noticeably fouled, apply 11.74 to 23.48 fluid ounces of BioClear 2500 Antimicrobial per 1,000 gallons of water in the system.

**Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 2.45 to 23.4 fluid ounces of BioClear 2500 Antimicrobial per 1,000 gallons of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

### INDUSTRIAL WASTEWATER SYSTEMS

(Wastewater Systems, including reverse osmosis systems, Sludge and Holding Tanks)  
BioClear 2500 Antimicrobial should be added to a wastewater system or sludge at a point of uniform mixing such as the digester. Add 5.28 to 27.4 fluid ounces (440.3 to 2,201.6 ppm) BioClear 2500 Antimicrobial per 100 gallons of wastewater or sludge.

### AQUEOUS METALWORKING FLUIDS

Add BioClear 2500 Antimicrobial to metalworking fluid systems at a point of uniform mixing such as the fluid collection tank.

**Initial Dose:** When the system is noticeably fouled add 195.6 to 587.1 ppm or 25 to 75 fluid ounces of BioClear 2500 Antimicrobial per 1000 gallons of metalworking fluid. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is achieved, add 78.2 to 391.4 ppm or 10 to 50 fluid ounces of BioClear 2500 Antimicrobial per 1000 gallons of metalworking fluid to the system weekly or as needed to maintain control. Badly fouled systems should be cleaned before treatment begins

**ACCEPTED**

07/24/2014

Under the Federal Insecticide, Fungicide, and Rodenticide Act, and amendments, for the pesticide registered under EPA Reg. No. 59106-9